

Appl. No. 10/807,050  
Amdt. Dated May 18, 2006  
Reply to Office Action of February 17, 2006

### Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

Claim 1 (currently amended): ~~A housing of an~~ An electronic device comprising:

a housing assembly comprising a side wall; and

a printed circuit board received in the housing assembly; and

a side key assembly, ~~which~~ engaged with the side wall, and comprising:

a key portion;

a flexible panel[[,]] having domes formed thereon and corresponding to the key portion; and

a flexible printed circuit board[[,]] having conducting tracks formed thereon, the flexible printed circuit board being fixed to and electrically connecting with said printed circuit board; wherein

the flexible panel is arranged between the key portion and the flexible printed circuit board, and each dome corresponds to [[a]] an end of each at least one respective of the conducting track such that tracks; and

when the key portion is ~~depressed~~, depressed, it exerts a force and presses the flexible panel, and in ~~responsive~~ response to this pressure[[,]] one of the domes ~~deformed on the flexible panel has a distortion and depresses to~~ deforms toward the flexible printed circuit board to actuate the corresponding at least one conducting ~~tracks~~ track on the flexible printed circuit board.

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Claim 2 (currently amended): ~~A housing of an~~ The electronic device ~~with a side key assembly~~ as described in claim 1, wherein the side key ~~assembly~~ further comprises an ~~electronical~~ electrical panel, which ~~electrical~~ contacts with electrically contacts the conducting tracks formed on the flexible printed circuit board.

Claim 3 (currently amended): ~~A housing of an~~ The electronic device ~~with a side key assembly~~ as described in claim 2, wherein the flexible printed circuit board ~~coupled~~ is coupled with the ~~electronical~~ electrical panel by means of hot pressure pressing.

Claim 4 (currently amended): ~~A housing of an~~ The electronic device ~~with a side key assembly~~ as described in claim ~~[[3]]~~ 2, wherein the key portion comprises a body portion, a user interface extending from the body portion, and ~~[[an]]~~ a contact portion extending from ~~one~~ an inner side of the user interface.

Claim 5 (currently amended): ~~A housing of an~~ The electronic device ~~with a side key assembly~~ as described in claim 4, wherein the side wall ~~further~~ comprises a plurality of stop walls, and ~~[[an]]~~ a receiving space formed therebetween.

Claim 6 (currently amended): ~~A housing of an~~ The electronic device ~~with a side key assembly~~ as described in claim 5, wherein each stop wall ~~is in a~~ has an "L" shape, and ~~includes~~ comprises a long arm and a short arm, the long arm is parallel to the side wall, and the short arm extends from a bottom wall of the housing ~~and near to~~ the side wall.

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Claim 7 (currently amended): ~~A housing of an~~ The electronic device ~~with a side key assembly~~ as described in claim 6, wherein the side wall has a recess which ~~responding~~ corresponds with the stop wall, and a width of the recess is shorter than a distance ~~of~~ between the two short arms.

Claim 8 (currently amended): ~~A housing of an~~ The electronic device ~~with a side key assembly~~ as described in claim 7, wherein the key portion, the flexible panel and the ~~electronical~~ electrical panel are placed in the receiving space, the side wall blocks the body portion of the key portion, and the user interface extends out from the recess.

Claim 9 (canceled)

Claim 10 (currently amended): ~~A housing of an~~ The electronic device ~~with a side key assembly~~ as described in claim [[9]] 1, wherein the flexible printed circuit board is coupled to ~~the~~ said printed circuit board by means of hot ~~pressure~~ pressing.

Claim 11 (currently amended): A side key assembly for ~~a housing of an~~ an electronic device, comprising:

a key portion;

a flexible panel[[.]] having domes formed thereon and corresponding to the key portion; and

a flexible printed circuit board[[.]] having conducting tracks formed thereon, the flexible printed circuit board configured for being fixed to and electrically connecting with a printed circuit board of the electronic device; wherein

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the flexible panel is arranged between the key portion and the flexible printed circuit board, and each dome corresponds to ~~[[a]]~~ an end of each at least one respective of the conducting track such that tracks; and

when the key portion is ~~depressed~~, depressed, it exerts a force and presses the flexible panel, and in ~~responsive~~ response to this pressure~~[[,]]~~ one of the domes ~~deformed~~ on the flexible panel ~~has a distortion and depresses to~~ deforms toward the flexible printed circuit board to actuate the corresponding at least one conducting ~~tracks~~ track on the flexible printed circuit board.

Claim 12 (currently amended): A ~~The~~ side key assembly ~~for a housing of an electronic device~~ as described in claim 11, further comprising a housing assembly, wherein the housing ~~further comprise~~ assembly comprises a side wall, and the side key assembly engages key portion, the flexible panel and the flexible printed circuit board are cooperatively engaged with the side wall.

Claim 13 (currently amended): A ~~The~~ side key assembly ~~for a housing of an electronic device~~ as described in claim 12, ~~wherein the side key assemble~~ further ~~comprises~~ comprising an ~~electronical~~ electrical panel, which electrically ~~contacts~~ with contacts the conducting tracks formed on the flexible printed circuit board.

Claim 14 (currently amended): A ~~The~~ side key assembly ~~for a housing of an electronic device~~ as described in claim 13, further comprising said printed circuit board, wherein the flexible printed circuit board ~~couples~~ is coupled with each of the ~~electronical~~ electrical panel and said printed circuit board by means of ~~hot pressure~~ pressing.

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Claim 15 (currently amended): A ~~The~~ side key assembly ~~for a housing of an electronic device~~ as described in claim 14, wherein the key portion comprises a body portion, a user interface extending from the body portion, and a contact portion extending from ~~one~~ an inner side of the user interface.

Claim 16 (currently amended): A ~~The~~ side key assembly ~~for a housing of an electronic device~~ as described in claim 15, wherein the side wall ~~further~~ comprises a plurality of stop walls, and a receiving space formed therebetween.

Claim 17 (currently amended): A ~~The~~ side key assembly ~~for a housing of an electronic device~~ as described in claim 16, wherein each stop wall ~~is in a~~ has an "L" shape, and comprises a long arm and a short arm, the long arm is parallel to the side wall, and the short arm extends from a bottom wall of the housing ~~and near to~~ the side wall.

Claim 18 (currently amended): A ~~The~~ side key assembly ~~for a housing of an electronic device~~ as described in claim 17, wherein the side wall has a recess which ~~responding~~ corresponds with the stop wall, and a width of the recess is shorter than a distance of between the two short arms.

Claim 19 (currently amended): A ~~The~~ side key assembly ~~for a housing of an electronic device~~ as described in claim 18, wherein the key portion, the flexible panel and the ~~electronical~~ electrical panel are placed in the receiving space, the side wall blocks the body portion of the key portion, and the user interface extends out from the recess.

Claim 20 (canceled)

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Claim 21 (canceled)

Claim 22 (currently amended): ~~A housing of an~~ An electronic device comprising:

a housing assembly comprising a side wall, and;

a printed circuit board mounted in the housing assembly; and

a side key assembly, which engages engaged with the side wall, and comprising:

a key portion;

a flexible panel, ~~which~~ substantially abutting against the key portion;

and

a flexible printed circuit board[[,]] having conducting tracks formed thereon, the flexible printed circuit board being fixed to and electrically connecting with said printed circuit board; wherein

the flexible panel is arranged between the key portion and the flexible printed circuit board; ~~such that and~~

when the key portion is ~~depressed~~, depressed, it exerts a force and presses the flexible panel, and in response to this pressure[[,]] the flexible panel ~~has a distortion and depresses to~~ deforms generally toward the flexible printed circuit board to actuate at least one of the conducting tracks on the flexible printed circuit board.

Claim 23 (currently amended): The ~~housing~~ electronic device as described in claim 22, wherein ~~said the~~ the flexible panel is metallic, and ~~said the~~ the flexible printed circuit board is further connected to an electrical panel, ~~which and the electrical~~

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panel is engaged with said-metallic the flexible pane panel when the flexible panel  
deforms generally toward the flexible printed circuit board.